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9 March 1971

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MEMORANDUM FOR: Chief, Technical Services Group, NPIC

ATTENTION : Chief, PPS/TSG

SUBJECT : RED Monthly Report (February 1971)

Significant Items of Interest for February 1971:

1. High Precision Stereo Comparator (HPSC) - Operational suitability tests were run on the HPSC at the contractor's facility. The instrument performed in accordance with the design specifications. The HPSC will be shipped to NPIC during March 1971.

2. Scan & Search P.I. Station - The work on this program is progressing very well. The optical subcontractor reports that the optics will be completed in July 1971. [ ] Program Manager visited [ ] during February to monitor the progress on the optical fabrication.

3. [ ] Light Tables - A total of 90 tables were delivered to the Center during February 1971.

4. Prototype Filar Eyepiece for Zoom 240 - The prototype of this instrument was delivered to NPIC on 24 February 1971. This will be put through an extensive test and evaluation program.

5. UV Rear Projection System [ ] has reported that the work on this engineering model has been completed. Preacceptance tests will be performed [ ] during the first week of March.

6. Power Spectral Density Quality Measure - The results of this contract showed the Optical Power Spectrum (OPS) to correlate very well with PI judgments of quality on operational imagery. It is the first such measure to do so. A follow-on project has been started to adopt the T.I.D. to make the OPS measurements so that in-house experiments can begin in late March 1971. The ITL/ATB and HFS/ATB have made provisions to evaluate the capability of the optical power spectrum technique to specify image quality under the current Imagery Interpretation Research Program [ ]


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7. Color Training  The first draft of a document entitled A Review of Color Science and Color Aerial Reconnaissance was delivered to the Center. Seven copies have been forwarded to the Vision Committee, National Research Council, for evaluation by experts in the field of color, color perception, and photointerpretation. An additional in-house evaluation will be conducted early in March.

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8. Readout Sampling  for HFS and IEG personnel have met with COMIREX and IRS/DDI personnel to develop a readout sampling technique compatible with requirements and acquisition sampling techniques. Additional sessions are scheduled early in March.

9. Experimental Design Support - Operations Division, IEG, and Applied PhotoSciences Division, TSG - HFS personnel have been requested to assist in the development of an experimental design suitable for the evaluation of six new dupe emulsions or processes provided the Center by Westover AFB. The program is under the direction of the CCB.

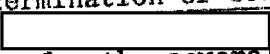
10. OSI, NPIC Stereo Acuity Research Program - More than 200 Center personnel have served as subjects in the first phase of the HFS, OSI evaluation of a refined stereo acuity test. Preliminary analysis of the data was completed on 26 February, and briefings of Center management are tentatively scheduled for the week of 15 March.

11. Contact Lens Evaluation - ATB/HFS has prepared status reports on the proposal to provide Center PI's with contact lenses, and on the potential effects on photointerpretation and photogrammetry of a recent FDA ruling that all prescription lenses must be made of safety glass.

12. Evaluation of Army PI Test Battery (HFS; Psychological Services Staff, OMS) - At the request of Chief, Operations Division, IEG, the HFS and Psychological Services Staff of OMS evaluated the influence of military experience, educational background, general intellectual ability, age, and the sex of the applicant on Army PI Test Battery scores. Initial briefings of the results are scheduled for TSG and IEG management beginning 4 March.

13. GOB Study  - The final report of a study entitled "Classification and Identification of Ground Order-of-Battle Targets as a Function of Photographic Ground Resolution" has been delivered to the HFS contract monitor.

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14. Determination of Color Preference of new Horizon's Free Radical Materials -  has requested that HFS personnel determine PI preference for the several colors of Free Radical emulsions.

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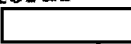
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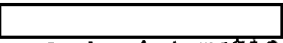
  
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15. PI Training Research  - The Behavioral Sciences Research Laboratory, U.S. Army, briefed Center and  personnel on several aspects of photointerpretation training techniques.


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16. Automatic Stereo Scanner - , presented their report on the engineering audit of the Automatic Stereo Scanner. The results are under review and recommendations will be forthcoming at an early date.

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17. Lenticular Screens - A follow-on-contract  to develop 30" X 30" lenticular screens for rear projection has been negotiated and work has commenced.



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18. Wide Field Anamorphic Stereoviewer  completed Milestone 1 (Phase II), final optical and mechanical design of the Wide Field Anamorphic Stereoviewer. The final 2 Milestones (complete optical bench test and prototype manufacture) will proceed upon our approval.

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19. Target Indexing Device - The TID (installed in 2N617) is now ready for acceptance tests. Ambient temperature problems have been resolved and certain optical and mechanical deficiencies have been corrected. Briefings on the TID operations have been given to numerous personnel.


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20. Dry Silver Materials - An in-house evaluation program of  dry silver materials has begun. The purpose is to resolve differences in resolution data between  and Westover AFB. Emphasis will be placed on low contrast static resolution tests.

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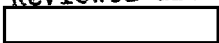

21. Meetings and Briefings:

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a.  participated in the following activities:

(1) Several meetings held by SPS/DDS&T and NPIC on a Special Project.

(2) Attended the Color Task Force meeting and participated in associated coordination.

(3) Reviewed drone materials for APSD and accompanied  to  headquarters where he met several company officials.

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- b. RSB hosted the visit [redacted] 25X1A  
[redacted] 25X1A
- c. [redacted] 25X1D
- d. [redacted]
- e. [redacted] attended and held numerous planning meetings and briefed various components on Project [redacted] 25X1A  
In addition, he coordinated NPIC action in preparing for [redacted] tests/experiments. 25X1A
- f. Arrangements were made [redacted] 25X1A  
[redacted] to set up a bench model holograph viewer at NPIC.
- g. [redacted] briefed the DDI during their recent parish visit on the [redacted] light table.
- h. [redacted] chaired a meeting of the Dry Silver Coordinating Committee on 22 February.
- i. [redacted] attended the Agency Management Course from 1 - 5 February 1971.
- j. [redacted] attended the Critical Design Review of the Tactical Information Processing & Interpretation System
- k. [redacted]
- l. [redacted] visited [redacted] the Department of Agriculture to discuss problems of chemical safety and procedures for improving gas chromatography techniques. 25X1A
- m. The FY-70 Photoscience Support Program [redacted] was completed. The final inspection report was issued indicating the successful completion of this task order [redacted] 25X1  
visited [redacted] on 18 February to discuss work order objectives for pursuit under the FY-71 continuation of this program. 25X1A  
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n. [ ] start programs under the Color Technology Implementation contract.

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o. [ ] briefed EXRAND on OPS as a Quality Measure on 17 February and Mr. Lundahl on 22 February 1971.

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p. [ ] attended a briefing on recent improvements in Dylux materials [ ] on 18 February. The blue image of Dylux proofing paper has been improved to a black image. Resolution loss due to fading of the developed image has been eliminated in a new photo-polymerization system [ ] for the first time, is actively seeking government support for funding improvements in its Dylux materials. The potential for a black image, high resolution duping film appears excellent.

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q. [ ] Director [ ] visited NPIC as a consultant. Various aspects of the NPIC Color Program were reviewed and he presented a short lecture on color specification.

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r. [ ] attended the Inter-Society Color Council Symposium on "The Optimum Reproduction of Color" [ ]

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s. On 3 February, the staff [ ] [ ] briefed members of PSG on Lab activities and capabilities.

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22. Training: On 8 and 9 February [ ] [ ] attended the two-day DDS&T Project Officers' Training Course

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[ ]  
Deputy Chief,  
Research & Engineering Division,  
TSG/NPIC

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